1996 GENERAL MOTORS

Caprice, Impala SS & Roadmaster

BUZZERS, RELAYS & TIMERS

BUZZERS, RELAYS & TIMERS

Component	Component Location
A/C Compressor Relay	In underhood electrical center.
Blower Motor High Speed Relay	Under right side of dash, right of blower motor.
Blower Motor Low Speed Relay	Under right side of dash, near blower motor.
Compartment Lid Release Relay (Rear)	On convenience center. See **Fig. 2**.
Coolant Fan Relays (Primary & Secondary)	In underhood electrical center.
Dome/Courtesy Lamp Relay	On convenience center. See **Fig. 2**.
Door Lock Relay	Behind left kick panel.
Emergency Vehicle Front Lamp Relay Flasher	Mounted on HVAC module.
Endgate Window Release Relay (Wagon)	On convenience center. See **Fig. 2**.
Fuel Pump Relay	In underhood electrical center.
Hazard Lamp Flasher	On convenience center. See **Fig. 2**.
Horn Relay	On convenience center. See **Fig. 2**.
Radio Power Antenna Relay	On convenience center. See **Fig. 2**.
Secondary Air Injection (AIR) Pump Relay	In underhood electrical center.
Starter Motor Theft Deterrent Relay	Behind right kick panel.
Turn Signal Lamp Flasher	On convenience center. See **Fig. 2**.
Warning Alarm	On convenience center. See **Fig. 2**.
Window Defogger Relay (Rear)	Behind right side of dash, near blower motor.

CIRCUIT PROTECTION DEVICES

CIRCUIT PROTECTION DEVICES

Component	Component Location
Auxiliary Fuse Block	Left of brake pedal bracket, attached to convenience center.
Auxiliary Junction Block	Right side of engine compartment, beneath overflow reservoir.
Circuit Breaker Panel	Near base of steering column.
Convenience Center	Behind left side of dash, on bracket. See **Fig. 2**.
Defogger Circuit Breaker (Rear)	In I/P fuse block.
Fusible Links A & B	Bolted to underhood electrical center.
Fusible Links C & D	Bolted to auxiliary junction block.
I/P Fuse Block	Mounted on left side of dash. See **Fig. 1**.
Power Seats Circuit Breaker	In I/P fuse block.

Power Windows Circuit Breaker	In I/P fuse block.
Relay Panel	Left rear of tank.
Underhood Electrical Center	In engine compartment, on right inner fender panel. See **Fig. 1**.

CONTROL UNITS

CONTROL UNITS

Component	Component Location
ABS System Module	In left side of engine compartment, on brake pressure modulator valve.
A/C-Heater Module	Behind center of dash.
Audio Alarm Module	On convenience center.
Automatic Headlamp Control Module	Behind right kick panel.
Automatic Transmission Control Module	Part of transmission, left rear.
Blower Motor Control Module	Behind right side of dash, near blower motor.
Cruise Control Module	On left front inner fender panel, near master cylinder.
Daytime Running Lamps (DRL) & Twilight Sentinel Module	Behind right kick panel.
Diagnostic Energy Reserve Module (DERM)	Behind left side of dash, above convenience center.
Driver Seat Adjuster Memory Module	Below center of driver's seat.
Electronic A/C Power Module	Behind right side of dash, near blower motor.
Keyless Entry Module	In luggage compartment, attached to rear shelf.
Power Steering Control Module	Behind left side of dash, near fuse block.
Powertrain Control Module (PCM)	On left front of engine compartment, under air cleaner. See **Fig. 1**.
Powertrain Control Module (PCM) Ground	Front of left cylinder head. See **Fig. 1**.
Theft Deterrent Module	Behind left side of dash, left of brake pedal bracket.

MOTORS

MOTORS

Component	Component Location
Automatic Level Control (ALC) Air Compressor	On left front frame rail.
Blower Motor	Under right side of dash.
Fuel Pump Prime Motor	Right rear if engine compartment, near A/C accumulator.
Power Seat Motors	Under each front seat.
Secondary Air Injection (AIR) Pump	On lower left side of engine.
Window Washer Pump Motor (Rear)	Attached to washer fluid reservoir.
Window Wiper Motor (Rear)	On center of rear header.

Windshield Washer Pump	Attached to washer fluid reservoir
Windshield Wiper Motor	On right side of firewall.

SENDING UNITS & SENSORS

SENDING UNITS & SENSORS

Component	Component Location
A/C Refrigerant Pressure Sensor	On high pressure line, above right inner fender panel. See **Fig. 1**.
Automatic Level Control (ALC) Sensor	On center of rear crossmember.
Crankshaft Position (CKP) Sensor	Lower right side of engine, left of A/C compressor.
Engine Coolant Temperature Gauge Sensor	Lower right side of engine block, below manifold. See **Fig. 3**.
Engine Coolant Temperature (ECT) Sensor	Attached to water pump.
Engine Oil Level Sensor	Left side of engine oil pan. See **Fig. 1**.
Engine Oil Pressure Gauge Sensor	Rear center of engine. See **Fig. 1**.
Headlamp Automatic Control Ambient Lamp Sensor	On top of dash panel, on defrost grille.
Heated Oxygen Sensor (HO2S)	On left & right side of engine. See **Fig. 1**.
Inside Air Temperature Sensor	Behind right side of dash, above glove compartment.
Intake Air Temperature (IAT) Sensor	In air cleaner assembly. See **Fig. 1**.
Knock Sensor (Left)	In left side of engine block, below exhaust manifold. See **Fig. 1**.
Knock Sensor (Right)	In right side of engine block, forward of starter. See **Fig. 1**.
Manifold Absolute Pressure (MAP) Sensor	In front of engine, above water pump. See **Fig. 1**.
Mass Air Flow (MAF) Sensor	In fresh air intake hose, near air cleaner. See **Fig. 1**.
Outside Air Temperature Sensor	Attached to hood latch support.
Steering Wheel Speed Sensor	On steering column shaft, forward of dash panel.
Sunload Sensor	On top center of dash, near defroster grille.
Throttle Position (TP) Sensor	On throttle body assembly. See **Fig. 1**.
Vehicle Speed Sensor (VSS)	Right rear of automatic transmission. See **Fig. 1**.
Wheel Speed Sensor (Front)	Mounted on each front wheel knuckle.
Wheel Speed Sensor (Rear)	Mounted on rear axle differential.

SOLENOIDS & SOLENOID VALVES

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Component	Component Location
Brake Pressure Modulator Valve (BPMV)	Part of electronic brake control module.
Brake/Transmission Shift Interlock (BTSI) Solenoid	On upper left side of steering column.

EGR Vacuum Control Signal Solenoid Valve	On top of engine, behind cylinder No. 7 injector. See **Fig. 1**.
Endgate Window Release Actuator	On endgate.
Evaporative Emission (EVAP) Canister Purge Solenoid Valve	On top of engine, behind cylinder No. 4 injector. See **Fig. 1**.
Fuel Injectors	On top left & right sides of engine. See **Fig. 1**.
Idle Air Control (IAC) Valve	On throttle body assembly. See **Fig. 1**.
Compartment Lid Release Solenoid (Rear)	Mounted to rear compartment lid.
Secondary Air Injection (AIR) Bleed Valve Solenoid	Lower left side of engine.
Transmission Control Solenoids	In transmission case.
Vacuum & Electrical Solenoid	Near center if dash, next to HVAC motor.

SWITCHES

SWITCHES

Component	Component Location
A/C Cycling Switch	Mounted on A/C accumulator. See **Fig. 1**.
Back-Up Lamp & Transmission Position Switch	On base of steering column.
Brake Pressure Switch	Attached to master cylinder.
Brake Transmission Shift Interlock (BTSI) Switch	Attached to brake pedal bracket.
Endgate Lower Lock Ajar Switch	Inside lower right corner of tailgate assembly.
Fuel Pump Switch & Engine Oil Pressure Gauge Sensor	On rear center of engine.
Idle Speed Control Power Steering Pressure (PSP) Switch	Near power steering pump, in pressure line. See **Fig. 1**.
Mercury Switch	Rear of trunk.
Park Brake Switch Indicator	Attached to top of parking brake assembly.
Park/Neutral Position Switch	Under floor console, attached to A/T control.
Seat Belt Switch	Part of driver's seat belt assembly.
Stoplamp/Cruise Release Switch	On brake pedal support bracket. See **Fig. 1**.
Stoplamp Switch	Attached to brake pedal bracket, bottom switch.
TCC Temperature Switch	In transmission cooler pipe, near cooler.
Windshield Washer Solvent Level Switch	In windshield washer reservoir, on left front fender.

MISCELLANEOUS

MISCELLANEOUS

Component	Component Location
A/C Clutch Diode	Taped inside compressor clutch harness connector.
Blower Motor Resistor	Behind right side of dash, near blower motor.

Data Link Connector (DLC)	Under dash, to right of steering column. See **Fig. 1**.
Daytime Running Lamps (DRL) Diode	Attached to brake pedal bracket.
Ignition Test Connector	On top right side of engine, near rocker cover. See **Fig. 1**.
Inflatable Restraint Diagnostic Energy Reserve (With Sensor) Module (SDM)	Upper left side of I/P, above convenience center.
Inflatable Restraint Front End Sheet Metal Sensor	Mounted on center radiator support.
Inflatable Restraint I/P Inflator Module	Right side of I/P, above I/P compartment.
Inflatable Restraint Steering Wheel Inflator Module	Center of steering wheel.
Interior Lamps Diode	Taped 18 cm from instrument cluster connector breakout branch.
Keyless Entry Programming Connector	Left side of rear compartment.
Remote Control Door Lock Receiver (Sedan)	Front of luggage compartment, attached to rear shelf.
Remote Control Door Lock Receiver (Wagon)	Near center of left "D" pillar.

CONNECTORS

CONNECTORS

Component	Component Location
C101 (Gray, 4 Pin)	At left front of engine compartment.
C103 (Gray, 5 Pin)	At right front fender.
C108 (1 Pin)	In engine compartment, left of EBCM.
C109 (2 Pin)	In forward lamp harness to SEO flasher.
C110 (2 Pin)	In forward lamp harness to SEO flasher.
C111 (3 Pin)	Near right front side marker & park light.
C112 (3 Pin)	Near left front side marker & park light.
C120 (Black, 4 Pin)	Near distributor.
C200 (Black, 56 Pin)	Above accelerator pedal.
C201 (Black, 6 Pin)	At right side of steering column.
C202 (Black, 6 Pin)	At right side of steering column.
C203 (Natural, 10 Pin)	At right side of steering column.
C204 (Black, 37 Pin)	Behind right side of dash.
C205 (Natural, 10 Pin)	At right side of dash compartment.
C207 (6 Pin)	Near base of right "A" pillar.
C207A (3 Pin)	Near base of right "A" pillar.
C207B (3 Pin)	Near base of right "A" pillar.
C208 (6 Pin)	At left side of convenience center.
C211 (3 Pin)	Near turn signal switch.
C216 (Gray, 7 Pin)	Near windshield wiper & washer switch.
C220 (Natural, 10 Pin)	At right side of steering column.

C225 (20 Pin)	Near inflatable restraint diagnostic energy reserve module.
C230 (Natural, 10 Pin)	Near base of left "A" pillar.
C231 (Black, 8 Pin)	Near base of left "A" pillar.
C240 (3 Pin)	Near steering wheel speed sensor.
C250 (1 Pin)	At right side of steering column.
C309 (Gray, 6 Pin)	Near dome light.
C316 (Black, 23 Pin)	Under driver's seat.
C317 (Black, 23 Pin)	Under passenger's seat.
C319 (Black, 6 Pin)	Under driver's seat.
C320 (3 Pin)	Under driver's seat.
C321 (2 Pin)	Under driver's seat.
C322 (2 Pin)	Under driver's seat.
C328 (2 Pin)	Under passenger's seat.
C340 (Gray, 4 Pin)	Below left rear floor pan.
C400 (Black, 8 Pin) (Sedan)	At left rear fender.
C400 (Black, 6 Pin) (Wagon)	At left "D" pillar.
C401 (Black, 6 Pin)	At right "D" pillar.
C402 (1 Pin)	Near fuel pump/level sender.
C403 (2 Pin)	At center of endgate.
C405 (Green, 6 Pin)	Near center of left "D" pillar.
C406 (Blue, 6 Pin)	Near center of left "D" pillar.
C407 (2 Pin)	In trunk.
C408 (Gray, 4 Pin)	In trunk.
C410 (4 Pin)	Near shelf lights.
C450 (Black, 6 Pin)	Near center of left "D" pillar.
C451 (Gray, 6 Pin)	Near center of left "D" pillar.
C500 (Gray, 8 Pin)	Inside left front door.
C501 (2 Pin)	Inside left front door.
C503 (2 Pin)	Inside left front door.
C504 (Black, 8 Pin)	Inside left front door.
C600 (Gray, 8 Pin)	Inside right front door.
C601 (2 Pin)	Inside right front door.
C701 (2 Pin)	Inside left rear door.
C801 (2 Pin)	Inside right rear door.
C903 (2 Pin)	At rear of vehicle.

GROUNDS

GROUNDS

Component	Component Location

G100	In engine compartment, at front of right cylinder head.
G101	At right front fender, near battery.
G102	Behind left headlight support.
G104	In engine compartment, at front of left cylinder head.
G106	At right headlight support.
G200	At base of left "A" pillar.
G201	At base of left "A" pillar.
G202	At base of right "A" pillar.
G204	At steering column support.
G400	Near center of right "D" pillar.
G401 (Sedan)	In trunk, at left rear wheelwell.
G401 (Wagon)	Near center of left "D" pillar.

SPLICES

SPLICES

Component	Component Location
S101	In forward lamp harness, near breakout for left headlight.
S102	In engine harness, near breakout for fuel injector No. 8.
S103	In engine harness, near breakout for automatic transmission control.
S104	In forward lamp harness, near breakout for C100.
S105	In forward lamp harness, near breakout for C100.
S106	In forward lamp harness, near breakout for C100.
S108	In engine harness, near breakout for underhood electrical center.
S109	In engine harness, near breakout for fuel injector No. 5.
S110	In engine harness, near breakout for electronic brake control module.
S111	In engine harness, near breakout for underhood electrical center.
S113	In engine harness, near breakout for fuel injector No. 6.
S114	In engine harness, near breakout for underhood light.
S115	In engine harness, near breakout for fuel injector No. 3.

S116	In forward lamp harness, near breakout for G104.
S117	In engine harness, near breakout for fuel injector No. 6.
S119	In engine harness, near breakout for G104.
S120	In engine harness, near breakout for center branch.
S122	In engine harness, near breakout for G104.
S124	In engine harness, near breakout for underhood electrical center.
S132	In engine harness, near breakout for fuel injector No. 7.
S132	In engine harness, near breakout for underhood electrical center.
S138	In forward lamp harness, near breakout for ALC air compressor.
S150	In engine harness, near breakout for underhood electrical center.
S151	In engine harness, near breakout for fuel injector No. 5.
S152	In engine harness, near breakout for fuel injector No. 5.
S200 (Buick)	In dash harness, near breakout for ashtray light.
S200 (Chevrolet)	In dash harness, near breakout for heater-A/C control.
S201 (Buick)	In dash harness, near breakout for instrument cluster.
S201 (Chevrolet)	In dash harness, near breakout for C200.
S202	In daytime running light harness, near breakout for ambient light sensor.
S207 (W/ Auto On-Off Control Headlights)	In twilight sentinel wiring harness, near breakout for ambient light sensor.
S207 (W/ Daytime Running Lights)	In daytime running light harness, near breakout for ambient light sensor.
S211	In dash harness, near breakout for dash compartment light switch.
S213 (Buick)	In dash harness, near breakout for instrument cluster.
S213 (Chevrolet)	In dash harness, near breakout for heater & A/C control.
S214 (Buick)	In dash harness, near breakout for C200.
S214 (Chevrolet)	In dash harness, near breakout for cigar lighter.
S215	In body harness, near breakout for SDM.
S216	In dash harness, near breakout for dash compartment light switch.

S220 (W/Auto On-Off Control Headlight)	In automatic headlight beam control harness, near breakout for ambient light sensor.
S220 (W/Daytime Running Lights)	In daytime running light harness, near breakout for daytime running light diode.
S223	In dash harness, near breakout for C200.
S224 (Buick)	In dash harness, near breakout for C200.
S224 (Chevrolet)	In dash harness, near breakout for instrument cluster.
S226	In body harness, near breakout for convenience center.
S227	In body harness, near breakout for convenience center.
S230	In body harness, near breakout for BTSI solenoid.
S231	In body harness, near breakout for convenience center.
S232	In body harness, near breakout for SDM.
S234	In body harness, near breakout for C201.
S235	In body harness, near breakout at left front wheelwell.
S236	In body harness, near breakout for starter motor theft deterrent relay.
S237	In body harness, near breakout for starter motor theft deterrent relay.
S239 (W/Auto On-Off Control Headlights)	In automatic headlight beam control harness, near breakout for ambient light sensor.
S239 (W/Daytime Running Lights)	In automatic headlight beam control harness, near breakout ambient light sensor.
S240	In cross-body harness, near breakout for door lock relay.
S241	In body harness, near breakout for SDM.
S244	In cross-body harness, at breakout for C230.
S245	In body harness, near breakout for dash fuse block.
S248	In cross-body harness, at breakout for C231.
S250	In body harness, near breakout for convenience center.
S251	In body harness, near breakout for SDM.
S252	In body harness, near breakout for inflatable restraint dash inflator module.
S255	In dash harness, near breakout for instrument cluster.
S258	In cross-body & side door harness, near breakout for C231.
S259	In body harness, near breakout for convenience

	center.
S260	In body harness, near breakout for convenience center.
S265	In body harness, near breakout for SDM.
S266	In body harness, near breakout for rear window defogger relay.
S271	In body harness, near breakout for SDM.
S276	In body harness, near breakout for SDM.
S277	In body harness, near breakout for SDM.
S279	In body harness, near breakout for convenience center.
S280	In body harness, near breakout for BTSI solenoid.
S281	In body harness, near breakout for convenience center.
S282	In body harness, near channel opening at left "B" pillar.
S283	In dash harness, near breakout for instrument cluster.
S289	In cross-body harness, near breakout for C230.
S307	In body harness, near breakout for C309.
S308	In body harness, near breakout for C309.
S316	In roof harness, near breakout for C309.
S318	In roof harness, near breakout for C309.
S319	In roof harness, near breakout for dome light.
S344 (Buick)	In driver's seat harness, near breakout for C316.
S345 (Buick)	In driver's seat harness, near breakout for C316.
S346	In driver's seat harness.
S347	In driver's seat harness, near breakout for memory module.
S348 (Buick)	In driver's seat harness, near breakout for C317.
S349 (Buick)	In driver's seat harness, near breakout for C317.
S400 (Buick Sedan)	In body rear harness, near breakout for C416.
S400 (Chevrolet Sedan)	In body rear harness, near breakout for C402.
S400 (Wagon)	In left stoplight wiring harness, near breakout for left lower tail/turn/stoplight.
S401 (Buick Sedan)	In body rear harness, near breakout for C417.
S401 (Chevrolet Sedan)	In body rear harness, near breakout for right backup light.
S401 (Wagon)	In right stoplight wiring harness, near breakout for right lower tail/turn/stoplight.
S402 (Wagon/SEO Wagon)	In rear compartment wiring harness, near breakout for high mount stoplight.

S404	In body rear harness, near breakout for C400.
S406 (Wagon)	In rear body harness, near breakout for C412.
S408 (Sedan)	In deck lid harness, near breakout for rear license light.
S409	In body rear harness, near breakout for C400.
S410	In left stoplight harness, near breakout for C400.
S411	In right stoplight harness, near breakout for C401.
S413	In body rear harness, near breakout for G401.
S414 (Wagon)	In body rear harness, near breakout for remote control door lock module.
S415	In body rear harness, near breakout for C450.
S417	In body harness, near breakout for remote control door lock module.
S420	In body harness, near breakout for C400.
S421 (Sedan)	In body harness, near breakout for high mount stoplight.
S505	In cross-body harness, inside left front door.

COMPONENT LOCATION GRAPHICS

NOTE: **Figures may show multiple component locations. Refer to appropriate table for proper figure references.**

COMPUTER HARNESS

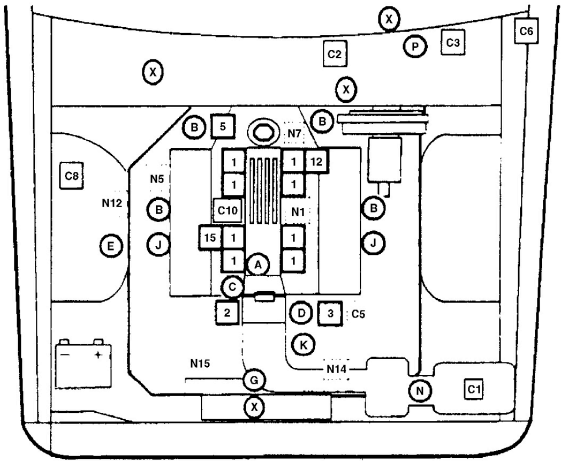
C1. Powertrain Control Module (PCM)
C2. Data Link Connector (DLC)
C3. Malfunction Indicator Light (MIL)
C5. PCM Ground
C6. I/P Fuse Block
C8. Underhood Electrical Center
C10. Ignition Test Connector

CONTROLLED DEVICES

1. Fuel Injectors
2. Idle Air Control (IAC) Valve
5. Transmission Electrical Connector
9. Secondary Air Injection (AIR) Pump
12. EGR Vacuum Control Signal Solenoid Valve
15. EVAP Canister Purge Solenoid Valve

INFORMATION SENSORS

A. Manifold Absolute Pressure (MAP) Sensor
B. Heated Oxygen Sensor (HO2S)
C. Throttle Position (TP) Sensor
D. Engine Coolant Temperature (ECT) Sensor
E. A/C Refrigerant Pressure Sensor
F. Engine Oil Level Sensor
G. Intake Air Temperature (IAT) Sensor
J. Knock Sensor
K. Idle Speed Control Power Steering Pressure (PSP) Switch
M. Vehicle Speed Sensor (VSS)
N. Mass Air Flow (MAF) Sensor
P. Stoplamp/Cruise Release Switch



4.3L (VIN W) & 5.7L (VIN P)

NOT PCM CONTROLLED

N1. Crankcase Ventilation Valve
N7. Engine Oil Pressure Gauge Sensor & Fuel Pump Switch
N12. A/C Cycling Switch
N14. Secondary Cooling Fan
N15. Primary Cooling Fan

MISCELLANEOUS

X. SIR System Components

96E03147

Fig. 1: Engine Compartment

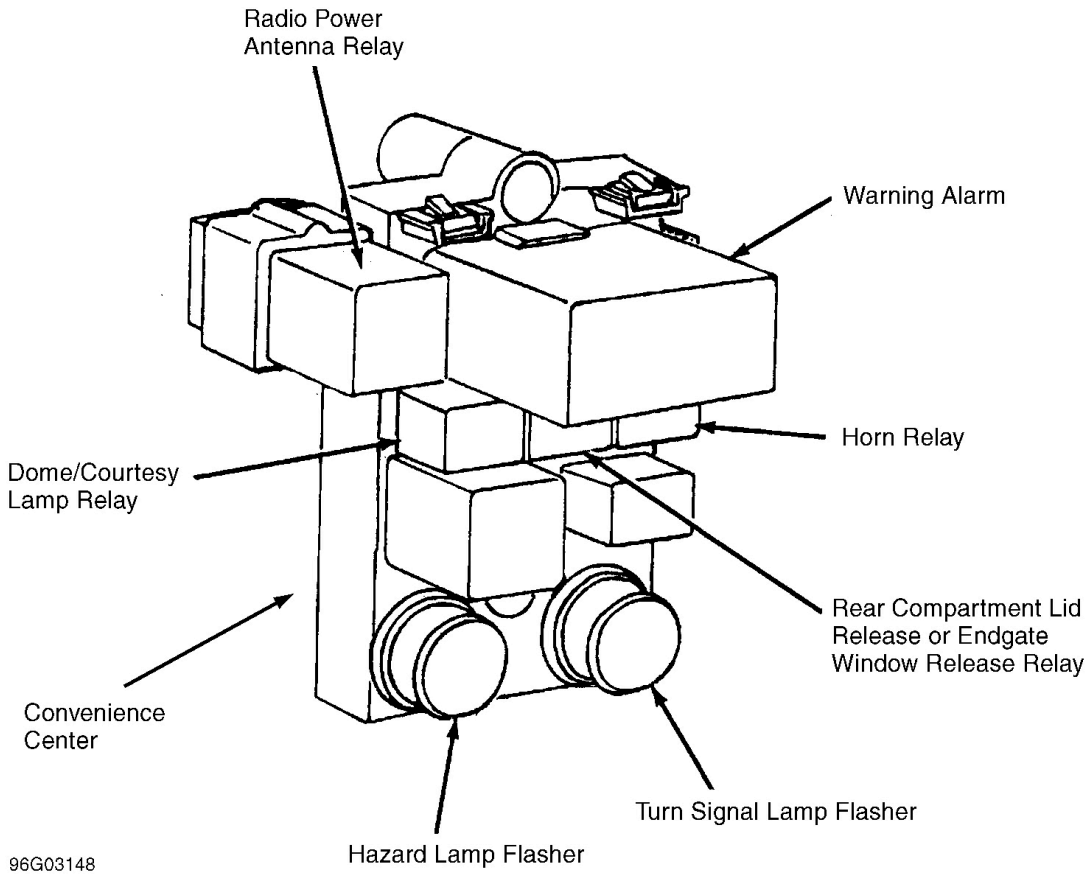


Fig. 2: Convenience Center

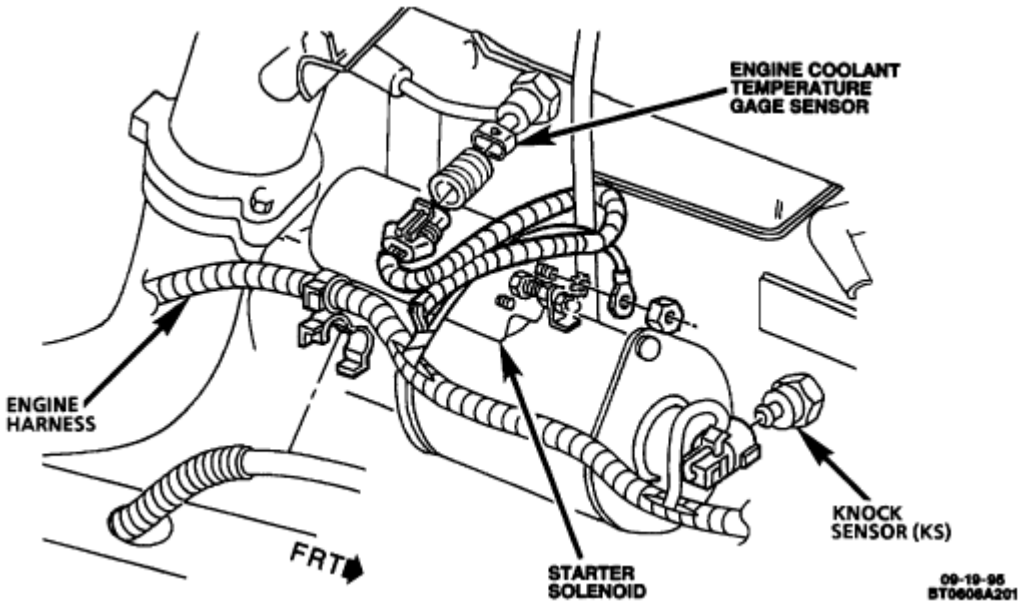


Fig. 3: Locating Coolant Temperature Gauge Sensor, Knock Sensor, Starter

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